APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,232	09/26/2001	Timothy E. Grib	HO-P02393US0	1841

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ART UNIT	PAPER NUMBER
2143	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	09/964,232	GRIB, TIMOTHY E.
	Examiner	Art Unit	
	Kyung H. Shin	2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *23 May 2007*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-29* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-29* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *26 September 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some *   c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *5/23/07*.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application

6)☐ Other: _____ .

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1.   A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/23/07

has been entered.

2.   Claims **1 - 29** are pending. Claims **1, 15, 16, 21** have been amended. Independent

claims are **1, 16, 21**.

Information Disclosure Statement

3.   The information disclosure statement (IDS) submitted on 5/23/07 was filed, and

the IDS is same as the mailing date of the original IDS on 12/23/2005, which was

signed by examiner then mailed on 4/6/2006 with Non-Final action. The submission is

in compliance with the provisions of 37 CFR 1.97. However, the information disclosure

statement (IDS) submitted on 5/23/07 is being re-considered by the examiner.

Claim Rejections - 35 USC § 112

4.   The following is a quotation of the first paragraph of 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of
> making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the
> art to which it pertains, or with which it is most nearly connected, to make and use the same and shall
> set forth the best mode contemplated by the inventor of carrying out his invention.

5. **Claims 1, 15, 16** are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Amended claim word, "<u>non-sequential</u> " performance tests is not described in the specification. Examiner interprets it as "concurrently executing" performance tests for this action.

Response to Arguments

6. Applicant's arguments filed 5/23/2007 have been fully considered but they are not persuasive.

6.1 Applicant argues that the referenced prior art does not disclose, simultaneous execution of performance test. (see Remarks pages 9, 11)

The Mayton prior art disclose the concurrent execution of performance test. (see Mayton col. 8, lines 23-26: concurrently executing)

The term *"concurrent"* is defined as, *" ... Happening at the same time as something else. ... ", " ... Simultaneous ... ", " ... At the same time. It implies that multiple processes are taking place simultaneously. ... ".*

(http://www.answers.com/topic/concurrent)   The execution of concurrent tests is equal to the execution of simultaneous tests.

The two standard input/output operational processing steps disclosed within Remarks (see Remarks Page 8) for the execution of two performance tests can be applied to the Mayton prior art.   Operational steps: (1) one command; two communications paths; (2) synchronization of tests; queue first test until second test is received.

6.2   Applicant has used the term, "non-sequential". (see Remarks Page 10)

The term *"non-sequential"* is not disclosed within the specification or original claims. Applicant has defined *"sequential"* to be *"within a close time proximity"*. This equalization for two terms does not exist within the specification or original claims.

6.3   Applicant argues that the referenced prior art does not disclose, obviousness for the combinations of Mayton and Silva as grounds of rejection, and Mayton and Zhuo as grounds of rejection. (see Remarks Pages 12, 13)

The Silva prior art is not utilized as grounds of rejection for claim 1.   And, the Zhuo prior art is not utilized as grounds of rejection for claim 1.

6.4.   The examiner has considered the applicant's remarks concerning the performance measurement of network routes.   Applicant's arguments have been fully analyzed and considered but they are not persuasive.

After an additional analysis of the applicant's invention, remarks, and a search of the available prior art, it was determined that the current set of prior art consisting of Mayton (6,763,380), Silva (6,360,268), and Zhuo

(20030036865) disclose the applicant's invention including disclosures in

Remarks dated May 23, 2007.

Claim Rejection - 35 USC § 102

7.   **Claims 1 - 9, 13, 15 - 29** are rejected under 35 U.S.C. 102(e) as being anticipated

by **Mayton et al.** (US Patent No. 6,763,380).

Regarding Claim 1, Mayton discloses a method performed by one or more

components in a network comprising a plurality of paths between a first device and a

second device, the method comprising:

    a) conducting a first performance test of a first type (see Mayton col. 4, lines 26-28;

        col. 14, lines 7-11: communication types (i.e. a first type)) over a first path of the

        plurality of paths between the first and second devices; (see Mayton col. 3, line

        66 - col. 4, line 5; col. 3, lines 48-54: network performance measurement test (i.e.

        a first test) for a route (i.e. a first path) from a plurality of routes (i.e. paths)

        between two network devices (i.e. a first and a second device)) and (see Mayton

        col. 3, lines 28-29: complete performance test for each connection at same time

        (i.e. simultaneously) ; col. 13, lines 30-32: user initiated tests, non-scheduled

        test, simultaneously)

    b) conducting a second performance test of the first type (see Mayton col. 4, lines

        26-28; col. 14, lines 7-11: communication types (i.e. a first type)) over a second

        path of the plurality of paths between the first and second devices; (see Mayton

col. 4, lines 5-9; col. 3, line 66 - col. 4, line 5; col. 3, lines 48-54: network

performance test for a second route (i.e. a second path) between two network

devices (i.e. a first and a second device)) and (see Mayton col. 3, lines 28-29:

complete performance test for each connection at same time (i.e.

simultaneously) ; col. 13, lines 30-32: user initiated tests, non-scheduled test,

simultaneously)

    c)   wherein <u>a processor initiates the simultaneous execution of</u> the first and the

second <u>non-sequential</u> performance tests are performed simultaneously. (see

Mayton col. 8, lines 23-26: concurrently executing; col. 3, lines 22-24:

performance measurement tests completed on a scheduled basis (i.e. tests

scheduled within close time proximity)) and (see Mayton col. 3, lines 28-29:

complete performance test for each connection at same time (i.e.

simultaneously) ; col. 13, lines 30-32: user initiated tests, non-scheduled test,

simultaneously)

Regarding Claims 2, 17, Mayton discloses the method of claims 1, 16, wherein the first

performance test produces a first set of results;

    a)   wherein the second performance test produces a second set of results; (see

Mayton col. 3, lines 25-32: results are generated for multiple (first and second

network devices) over multiple routings (paths)) and

    b)   further comprising presenting a service level performance comparison based on

the first and second sets of results. (see Mayton col. 3, lines 40-46: performance

factors (service level) such as poor performance from latency or communication

outages)

Regarding Claim 3, Mayton discloses the method of claim 2, wherein the first

performance test includes a plurality of first individual performance tests performed over

an extended time duration; and the second performance test includes a plurality of

second individual performance tests performed over the extended time duration. (see

Mayton col. 3, lines 22-32; col. 3, lines 58-65: perform periodic repeated tests over a

multitude of routings (paths) between two network devices over an extended time

period)

Regarding Claim 4, Mayton discloses the method of claim 3, wherein each of the

pluralities of first and second individual performance tests are performed at roughly

periodic intervals over the extended time duration. (see Mayton col. 3, lines 25-32: tests

are performed at periodic intervals)

Regarding Claims 5, 18, Mayton discloses the method of claims 1, 16, wherein the first

path transverses a first access network, a first transport network, and a second access

network; and the second path transverses the first access network, a second transport

network, and the second access network. (see Mayton col. 8, lines 57-63: multiple

transport protocols (TCP and RTP) utilized in generating performance test data)

Regarding Claims 6, 19, 24, 27, Mayton discloses the method of claims 1, 16, 23,

further comprising receiving a scheduling request representing the first and second

performance tests. (see Mayton col. 3, lines 16-22: perform tests based on a

schedule)

Regarding Claim 7, Mayton discloses the method of claim 6, wherein the scheduling

request is received by a scheduling system; and the scheduling system communicates

a first indication of the request to the first device. (see Mayton col. 11, lines 34-40: test

scheduler communicates schedule information to endpoint nodes (first and second

network devices))

Regarding Claim 8, Mayton discloses the method of claim 7, wherein the scheduling

system further communicated a second indication of the request to the second device.

(see Mayton col. 11, lines 34-40: test scheduler communicates schedule information to

endpoint nodes (first and second network devices))

Regarding Claims 9, 20, Mayton discloses the method of claims 6, 19, further

comprising scheduling the first and second performance tests based on the scheduling

request and a random time component. (see Mayton col. 14, lines 49-52; col. 8, lines

52-57: tests are performed at random based on exception events)

Regarding Claim 13, Mayton discloses the method of claim 6, further comprising

determining whether a number of scheduled tests exceeds a first threshold number for

the first device or exceeds a second threshold number for the second device. (see

Mayton col. 6, line 66 - col. 7, line 3: threshold values are utilized)

Regarding Claim 15, Mayton discloses a computer readable medium containing

computer executable instructions for performing a method by steps comprising: (see

Mayton col. 5, lines 6-18: performance test system can be implemented as computer

program product)

    a) conducting a first performance test of a first type over a first path of a plurality of

        paths between a first and second devices; (see Mayton col. 3, line 66 - col. 4, line

        5; col. 3, lines 48-54: network performance measurement test (i.e. a first test) for

        a route (i.e. a first path) from a plurality of routes (i.e. paths) between two

        network devices (i.e. a first and a second device)) and (see Mayton col. 3, lines

        28-29: complete performance test for each connection at same time (i.e.

        simultaneously) ; col. 13, lines 30-32: user initiated tests, non-scheduled test,

        substantially simultaneously)

    b) conducting a second performance test of the first type over a second path of the

        plurality of paths between the first and second devices; (see Mayton col. 3, line

        66 - col. 4, line 5; col. 3, lines 48-54: network performance measurement test (i.e.

        a first test) for a route (i.e. a first path) from a plurality of routes (i.e. paths)

        between two network devices (i.e. a first and a second device)) and (see Mayton

        col. 3, lines 28-29: complete performance test for each connection at same time

(i.e. simultaneously) ; col. 13, lines 30-32: user initiated tests, non-scheduled

test, substantially simultaneously) <u>and</u>

c) wherein <u>a processor initiates the simultaneous execution of</u> the first and the

second <u>non-sequential</u> performance tests are performed simultaneously. (see

Mayton col. 8, lines 23-26: concurrently executing; col. 3, line 66 - col. 4, line 5;

col. 3, lines 48-54: network performance measurement test (i.e. a first test) for a

route (i.e. a first path) from a plurality of routes (i.e. paths) between two network

devices (i.e. a first and a second device)) and (see Mayton col. 3, lines 28-29:

complete performance test for each connection at same time (i.e.

simultaneously) ; col. 13, lines 30-32: user initiated tests, non-scheduled test,

substantially simultaneously)

Regarding Claims 16, Mayton discloses a network comprising:

a) a plurality of paths between a first device and a second device; (see Mayton col.

3, lines 25-27: multiple paths)

b) means for conducting a first performance test of a first type (see Mayton col. 4,

lines 26-28; col. 14, lines 7-11: communication types (i.e. a first type)) over <u>a</u> first

path of the plurality of paths between the first and second devices; (see Mayton

col. 3, line 66 - col. 4, line 5; col. 3, lines 48-54: network performance

measurement test (i.e. a first test) for a route (i.e. a first path) from a plurality of

routes (i.e. paths) between two network devices (i.e. a first and a second

device)) and (see Mayton col. 3, lines 28-29: complete performance test for each

connection at same time (i.e. simultaneously) ; col. 13, lines 30-32: user initiated

tests, non-scheduled test, substantially simultaneously)

c) means for conducting a second performance test of the first type (see Mayton

col. 4, lines 26-28; col. 14, lines 7-11: communication types (i.e. a first type)) over

a second path of the plurality of paths between the first and second devices; (see

Mayton col. 4, lines 5-9; col. 3, line 66 - col. 4, line 5; col. 3, lines 48-54: network

performance test for a second route (i.e. a second path) between two network

devices (i.e. a first and a second device)) and (see Mayton col. 3, lines 28-29:

complete performance test for each connection at same time (i.e.

simultaneously) ; col. 13, lines 30-32: user initiated tests, non-scheduled test,

substantially simultaneously)

d) wherein a processor initiates the simultaneous execution of the first and the

second non-sequential performance tests are performed simultaneously. (see

Mayton col. 8, lines 23-26: concurrently executing; col. 3, lines 22-24:

performance measurement tests completed on a scheduled basis (i.e. tests

scheduled within close time proximity)) and (see Mayton col. 3, lines 28-29:

complete performance test for each connection at same time (i.e.

simultaneously) ; col. 13, lines 30-32: user initiated tests, non-scheduled test,

substantially simultaneously)

Regarding Claim 21, Mayton discloses a network comprising:

a) a first device coupled to a first access network; the first access network coupled

to a first and a second transport networks; (see col. 9, lines 38-41; col. 8, lines

62-63: one or more transport protocols (i.e. TCP, UDP, RTP) utilized for network

communications)

b) a second access network coupled to the first and the second transport networks;

(see col. 9, lines 38-41; col. 8, lines 62-63: one or more transport protocols (i.e.

TCP, UDP, RTP) utilized for network communications) and

c) a second device coupled to the second access network; wherein a processor

initiates the simultaneous execution of a performance test is between the first

device and the second device over each of the first and second transport

networks simultaneously. (see col. 8, lines 23-26: concurrently executing; col. 3,

line 66 - col. 4, line 5; col. 3, lines 48-54: network performance measurements for

one or more paths (i.e. communications utilizing one or more transport paths)

between two network devices) and (see Mayton col. 3, lines 28-29: complete

performance test for each connection at same time (i.e. simultaneously) ; col. 13,

lines 30-32: user initiated tests, non-scheduled test, simultaneously)

Regarding Claim 22, Mayton discloses the network of claim 21, wherein the first device

is coupled to a first router, wherein the first router selectively routes performance testing

packets received from the first device over a first path to the first transport network and

a second path to the second transport network. (see col. 8, lines 57-63: communications

implemented utilizing multiple transport protocols (TCP and RTP))

Regarding Claim 23, Mayton discloses the network of claim 21, further comprising a

performance test scheduler. (see col. 11, lines 34-40: test scheduler coordinates

performance testing)

Regarding Claim 25, Mayton discloses the network of claim 24, further comprising a

results collector for receiving a set of results associated with the performance test. (see

col. 6, lines 6-12; col. 6, lines 21-24: performance data stored)

Regarding Claim 26, Mayton discloses the network of claim 25, wherein the results

collector transmits at least a subset of the set of results to the client device. (see col. 8,

lines 32-35: endpoint nodes (client: network devices) analyze performance data)

Regarding Claim 28, Mayton discloses the network of claim 27, wherein the

performance test scheduler communicates a second scheduling instruction associated

with the performance test to the second device. (see col. 3, lines 16-22: scheduling

information transmitted to endpoint nodes (first and second network devices)

Regarding Claim 29, Mayton discloses the network of claim 28, wherein the second

device includes a test mode; and wherein the second device enters the test mode in

response to receiving the second scheduling instruction. (see col. 3, lines 16-22: second

network devices used in generation of performance data)

Claim Rejection - 35 USC § 103

8.   Claims **10, 11, 14** are rejected under 35 U.S.C. 103(a) as being unpatentable over

Mayton in view of **Silva** (US Patent No. 6,360,268).

Regarding Claim 10, Mayton discloses a performance test scheduler between a first

and second network device. (see Mayton col. 3, line 66 - col. 4, line 9) Mayton does not

disclose the capability to determined whether the scheduling request is authorized.

However, Silva discloses the method of claim 6, further comprising determining whether

the scheduling request is authorized. (see Silva col. 7, lines 10-14: determine if user has

permission to perform test)

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Mayton to determine whether a scheduling request was

authorized as taught by Silva. One of ordinary skill in the art would be motivated to

employ Silva in order to maximize efficiency for test scheduling in the generation of

network communication performance metrics. (see Silva col. 1, lines 44-48: " ...

maximize efficiency in the handling of test scheduling and test execution ... automate ...

testing by using a server to manage test machines and to allocate test packages ... in

accordance with a schedule ... ")

Regarding Claim 11, Mayton discloses a performance test scheduler between a first

and second network device. Mayton does not disclose the capability to determined

whether the scheduling request is not authorized. However, Silva discloses the method

of claim 10, further comprising indicating that the scheduling request is not authorized.

(see Silva col. 7, lines 10-14; col. 12, lines 38-47: determine if user has permission to

perform test)

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Mayton to indicate whether a scheduling request was not

authorized as taught by Silva. One of ordinary skill in the art would be motivated to

employ Silva in order to maximize efficiency for test scheduling in the generation of

network communication performance metrics. (see Silva col. 1, lines 44-48)

Regarding Claim 14, Mayton discloses a performance test scheduler between a first

and second network device. Mayton does not disclose the capability to indicate a failed

scheduling request. However, Silva discloses the method of claim 13, further

comprising indicating a failed scheduling request. (see Silva col. 7, lines 10-14; col. 12,

lines 38-47: determine if user has permission to perform test)

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Mayton to indicate a failed scheduling request as taught

by Silva. One of ordinary skill in the art would be motivated to employ Silva in order to

maximize efficiency for test scheduling in the generation of network communication

performance metrics. (see Silva col. 1, lines 44-48)

9.   Claims **12** is rejected under 35 U.S.C. 103(a) as being unpatentable over **Mayton**

in view of **Zhuo** (US Patent No. 20030036865).

Regarding Claim 12, Mayton discloses the method of claim 6, further comprising

determining whether the scheduling request conflicts with a second scheduling request.

(see Zhuo paragraph [0063], lines 14-27: test parameters for scheduling request in

conflict)

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Mayton to determine test scheduling conflicts as taught

by Zhuo. One of ordinary skill in the art would be motivated to employ Zhuo in order to

optimize the efficient coordination for test scheduling in the generation of network

communications performance metrics. (see Zhuo paragraph [0007], lines 9-11: " ...

methods and systems for timely and efficient coordination and conduct of remote

equipment tests would be desirable ... ")
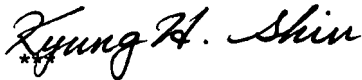
Conclusion

10.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kyung H. Shin whose telephone number is (571) 272-

3920. The examiner can normally be reached on 9:30 am - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

                                                    Kyung H Shin
                                                    Patent Examiner
                                                    Art Unit 2143

Kyung H. Shin

KHS
June 9, 2007